bfield

Computes magnetic field given coil geometry.

[called by: bnormal.] [calls: .]

## contents



## 0.1 magnetic field

- The magnetic field of filamentary coils is calculated bt Biot-Savart Law, involving a line integral. J. Hanson and S. Hirshman had a better representation for straight segments to avoid unnecessary sigularities and improve numerical error at points neary the coil.
- But currently, we use the normal expression of Biot-Savart Law and derivatives of B with repsect to x, y, z is also calculated.
- Later, error analysis and comparison to Hanson's method should be carried out.

bfield.h last modified on 019-03-31 15:36:20.; Focus subroutines;